

Appl. No. 10/604,717
Amtd. dated February 22, 2005
Reply to Office action of December 14, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A direct-type backlight unit for flat panel liquid crystal display, comprising:
a plurality of lamps installed within a housing;
a reflection plate installed under the plurality of lamps in the housing; and
a metal diffusion film with a plurality of apertures thereon installed above the plurality of lamps for diffusing light generated by the plurality of lamps.
2. (Original) The direct-type backlight unit of claim 1 wherein the plurality of lamps are a cold cathode fluorescent lamp (CCFL).
3. (Canceled)
4. (Currently amended) The direct-type backlight unit of claim [[3]] 1 wherein the diffusion film is made of metal and has a thickness of less than 0.5mm.
5. (Currently amended) The direct-type backlight unit of claim 1 further comprises a diffusion sheet located on the metal diffusion film.
6. (Original) The direct-type backlight unit of claim 1 wherein at least one heat-dissipating piece is disposed at a periphery of the diffusion film.
7. (Original) The direct-type backlight unit of claim 6 wherein the heat-dissipating piece is made of metal.

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8. (Original) The direct-type backlight unit of claim 6 further comprising a heat exchanging means connected with the heat-dissipating piece.
9. (Original) The direct-type backlight unit of claim 8 wherein the heat exchanging means is a heat pipe.
10. (Original) The direct-type backlight unit of claim 1 wherein the apertures on the diffusion film have different diameters/dimensions.
11. (Original) The direct-type backlight unit of claim 10 wherein the diameter/dimension of the apertures directly above the lamps is smaller than the diameter/dimension of the apertures not directly above the lamps.
12. (Original) The direct-type backlight unit of claim 1 wherein the diameters/dimensions of the apertures are the same.
13. (Original) The direct-type backlight unit of claim 12 wherein the diffusion film has a highest aperture packing density at an area directly over the lamps.
14. (Original) The direct-type backlight unit of claim 1 wherein the apertures are circular, rectangular, or any other shape.
15. (Currently amended) The direct-type backlight unit of claim 1 wherein the diffusion-film is a metal film and the apertures are columns and rows of through slots arranged on the metal film.